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United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region

Montana Area Office

P.O. Box 30137

Billings, Montana 59107-0137



June 25, 2008

FAXOGRAM: Water Order Change

To: Chief, Power Supply and Billing Division, WAPA, Watertown, South Dakota
Attention: F-6001
Chief, Power Dispatching Branch, WAPA, Loveland, Colorado
Attention: J-4120
Facilities Manager, Hardin, Montana
Attention: MT-300: Tom Tauscher
Project Manager, Mills, Wyoming
Attention: WY-4000, WY-4100, WY-6400
Assistant Superintendent, National Park Service, Lovell, Wyoming
Attention: Jim Staebler

From: Reservoir and River Operations, Billings, Montana

Subject: **Yellowtail Water Release Order - BHR No. 08-32**

CURRENT RESERVOIR CONDITIONS:

Elevation: 3637.24; Storage: 1,036,478 acre-feet; River Release: 7,680 cfs; Inflow: 10,280 cfs;

GENERAL COMMENTS:

Inflows to Bighorn Lake continue to decline slowly. In response, the following operation change is required at Yellowtail Dam and Bighorn Lake to control the rate of fill.

NOTE: This is the time period when fish are more susceptible to high levels of nitrogen gas super-saturation. To provide a more desirable mixing flow of approximately 75% through the spillway gates and 25% through the sluice gates to maintain the total gas super-saturation levels at safe limits, the minimum Afterbay elevation should be maintained at or above elevation 3183 whenever possible. This is only a soft limit and may be deviated from during special or emergency operations.

YELLOWTAIL TURBINE RELEASE:

At 1900 hour on Friday, June 27, 2008:

Decrease average daily turbine release to $\approx 7,030$ cfs ($\approx 5,680$ MW-Hrs/day using 29.7 cfs/mw).

AFTERBAY RELEASE AND OPERATION:

At 1900 hour on Friday, June 27, 2008:

Maintain diversions to the Bighorn Canal at 450 cfs (gage height = 74.13 with 0.0 shift).

Decrease release to the Bighorn River to 6,650 cfs (gage height = 62.36 & apply shift of 0.08).

Decrease total release from the Afterbay to 7,100 cfs.

/S/ Tim H. Felchle